In other good news, I am especially pleased to tell you that Ray Price, former Head of the Department, Director General of the Geological Survey, and world-renowned structural geologist, has been named an Officer of the Order of Canada, a singular and well-deserved honour! I am also pleased to report that the Department has received permission to search for a Canada Research Chair in the general area of solid earth materials and their cycling between the mantle, crust, and earth-surface environment. This search is just beginning. We hope that the successful candidate will strengthen our mineral-deposits group.

Finally, for those who may not know much about me... I arrived at Queen’s in 1980 as an Assistant Professor, after getting my Ph.D. at McMaster University and holding a post-doctoral fellowship at Oxford University. My general area of interest is clastic sedimentology. I’ve worked on a variety of modern coastal environments, including the Bay of Fundy, the Fly River delta in Papua New Guinea, and most recently the west coast of South Korea. I’ve also worked extensively with Guy Narbonne and Noel James on Neoproterozoic successions in NW Canada and Newfoundland. Many of my students have undertaken projects in the western Canada sedimentary basin, with oil-industry support.

Thanks again for taking the time to keep up with events here in Queen’s Geology. Your continued interest is greatly appreciated. Your comments and questions are always welcome.

Al Gorman’s contributions to this Newsletter are greatly appreciated. He has now completed the Eighth Decade of the departmental history (1963-1973), and he again collected and collated the Alumni Update that appears below. He also prepared another crossword puzzle.

Comings and Goings: On June 30, 2003, Tom Pearce retired, and on July 1, 2003, Laurent Godin took up his new position as structural geologist/tectonician in the Department. Laurent obtained his PhD from Carleton University and comes to us from Simon Fraser University, where he had his first academic position. He has field experience in the Canadian Cordillera, the Himalayas, and the Canadian Shield, and we hope that he will help us to keep the Queen’s field geology tradition alive and well.

(Continued on page 2)
News From the Department (Continued from page 1)

Homecoming Weekend in September, 2002, was a great success and a good time was had by all. Thanks for dropping in! Probably the best time was had by the group of 1952 postgraduates who used the opportunity to have a reunion at Opinicon lodge. Bob Baragar of the Geological Survey of Canada sent us a report of the Fiftieth Anniversary Reunion of Queen’s Geology graduate students which appears on page 5.

Reunions at Vancouver Cordilleran Roundup and Toronto PDAC: The reunion of Queen’s Geology graduates at the 2002 Roundup was such a success that we decided to have another one in January 2003. Mike Doggett and Herb Helmstaedt met again with at least 50 alumni in the Captain’s Room of the Westin Bayshore, many of whom had not been able to make it the previous year. Our Alumni Night at the PDAC in Toronto was a similar success and was attended by numerous past and present profs as well as alumni living in just about every corner of the world. We still have not lived up to our promise to hold a similar event in Calgary, but as Bob Dalrymple’s peregrinations take him routinely through Calgary, a reunion there should not be far off (see more elsewhere in the Newsletter).

“First Steps on Land”: Bob Dalrymple was featured on “the National” (June 5, 2002) in a report about the oldest-known on-land trackway fossils found in sandstone of the Kingston area. Bob was co-author with Rob McNaughton (PhD, 1997) and four others of a paper published in Geology (May 2002; see also Canadian Geographic, Nov./Dec. 2002) featuring arthropod trackways in the eolian Potsdam sandstone, north of Kingston. Reports were also featured in the journals Nature and Science. This event in evolution was the animal equivalent of humans going into space! Mark Badham has placed a sample of one of the trackways on display in the Miller Museum’s “Dawn of Animal Life” exhibit. Just open our website to have a look at it.

“The Oldest Complex Animals”: Also added to the “Dawn of Animal Life” exhibit were a number of specimens of up to two-metre-long fossilized seapens (Charnia) from Late Precambrian (~580 Ma) rocks of the Avalon Peninsula in southern Newfoundland. These unusual fossils were discovered by Guy Narbonne and Jim Gehling, one of our former William White Post-Doctoral Fellows (now in Adelaide, South Australia), and were described in the January 2003 issue of Geology. The paper caused quite a stir, the results being featured in numerous newspapers, on CBC’s “Quirks and Quarks” and the “World at 6”, as well as in the journals Science and Nature. The importance of this new fossil locality has been compared to that of the Burgess Shale in the Canadian Rockies.

Awards Received at the Canadian Society of Petroleum Geologists Annual Meeting: Queen’s Geology graduate students made an impressive showing at the CSPG’s Annual Meeting in June. Mike Johnson (with Bob Dalrymple) won the overall prize for “Best Geologic Paper” for his talk on “Negative accommodation and its influence on reservoir geometry and quality: The Lower Cretaceous Cadomin Formation of the Deep Basin Area, AB”; Dave Deline (with John Dixon) had the “Best Integrated Poster” (combined geology and geophysics) for his work on “Seismic Interpretation and Physical Analog Modelling of a Sub-Surface Lateral Ramp in the Southern Canadian Rockies (Crowsnest Pass Area, S.W. Alberta)”;

and Mike Cooley (with Ray Price, John Dixon, and Kurt Kyser) received First Honourable Mention in both the “Best Student Paper” and “Best Integrated Poster” categories for his presentation on “Structural Geology of the Southern Livingstone Range Anticlinorium and the Architecture of the Centre Peak Anticline; A Paleo-Hydrocarbon Reservoir”. Officer of the Order of Canada: Dr. Raymond Price has been awarded Canada’s highest honour for lifetime achievement - The Order of Canada.

The Order of Canada was established in 1967 to recognize outstanding achievement and service in various fields of human endeavour. It is our country’s highest honour for lifetime achievement. In his continuing distinguished career, Dr Price has made significant contributions to our understanding of the geology of Canada, with special reference to the Canadian Cordillera in Alberta and British Columbia. He has also held many positions of leadership, serving as Director General of the Geological Survey of Canada from 1982 to 1987, and Assistant Deputy Minister of the Department of Energy, Mines and Resources (the predecessor of today’s Department of Natural Resources) 1987-88.

Chancellor’s Research Award: Congratulations to Dr. Heather Jamieson on her recent success in the 2003 Chancellor’s Research Award program. Heather was one of only five successful candidates in this highly competitive program. She was selected on the basis of her research excellence and the potential of her research proposal, entitled: "Geochemical Controls on Human Health Risk Associated with Contaminated Soils". The Chancellor’s Research Awards Program is open to researchers from all disciplines in arts, humanities, social science, engineering and medicine. It is the largest single award that Queen’s gives to individual researchers. Under the terms of the award 80% of the money will go towards the support of graduate student research.
THE EIGHTH DECADE 1963-1973

THE EIGHTH DECADE, 1963-1973-RAPID EXPANSION (by W.A. Gorman)

Faculty numbers increased from 9 to 19 during this decade. Long-term professors Willis Ambrose and Fred Jolliffe retired, and Felix Mendelsohn and Hugh Wynne-Edwards resigned after shorter stays. The greatest area of increase in faculty numbers was in soft rock, where Bob Greggs, Leigh Smith and Grant Bartlett joined Jack Usher to expand offerings there. Mineralogy and petrology had Dugald Carmichael, Mabel Corlett and Tom Pearce added to Len Berry and Pete Roeder to strengthen that area. Ed Hawley and Fred Jolliffe were the faculty most involved in economic geology, but now the field was covered off by Alan Clark, Ian Nichol and Jay Hodgson. Bob Uffen and Ed Farrar joined Mike Fitzpatrick to look after all things geophysical. Instruction in structural geology rested on the shoulders of Ray Price now that Willis Ambrose had retired. Finally, Jim Neilson was hired as our first geotechnical engineer, which ended Al Gorman's task of teaching a subject he knew nothing about. Doug McCartney taught economic geology from 1966 till 1970. To begin the decade, Willis Ambrose took over as department head from Ed Hawley, and the decade ended with Ray Price taking over from Hugh Wynne-Edwards.

The most visible change was the addition of the Bruce Wing. The floor numbering was arranged so as to confuse guests and intruders. The first floor Miller is on the same level as the second floor Bruce. To get from the second floor Miller to the third floor Bruce, you go DOWN a flight of stairs. The first floor (basement) of Bruce was initially a mix of research and teaching labs. The second floor had our big new library, and for the first time, administrative offices that were designed for that purpose. The third floor was offices and teaching labs, the fourth, offices and research labs, and the fifth, offices, a lounge, and the only washroom in the new wing. How did we get the university to authorize all this new space? It was a combination of increasing enrolment and an amazing star-gazing act by Hugh Wynne-Edwards. The chart below shows the rapid expansion of degrees granted during the second half of the decade. Hugh took these data to the administration and convinced them that we would have 250 undergrads and 150 grads in the building by 1980. They fell for it and, his job here done, Hugh left for the tropical climes of UBC, seeking new administrations to conquer.

The graph shows the very low numbers of students in

(Continued on page 4)
geology at the start of this decade. The largest number of all degrees granted in any of its first four years was 12. The class of Science '67 had only one grad, Geoff Steed. He claimed he was best in his class, I claimed he was worst. He went on to teach at Aberystwyth, Wales, but I believe he is now in Cardiff. Of 16 undergrads in the class of '68, 15 went on to graduate work, and 11 obtained Ph.D.'s. Obviously they were a group that would do anything to avoid actually going to work.

Despite the decade's poor start, the increase in average number of degrees granted per year over the previous decade was, for Ph.D.'s, from 1 to 4, for M.Sc.'s, from 4 to 5, and for B.Sc.'s, from 15 to 25. Two new options were introduced in Applied Science, Geophysics in 1965 (Ted Glenn, Eng. '66, was the first graduate) and Stratigraphy and Sedimentation in 1968. About 20% of undergrads went on to a Ph.D. Most ended up in mineral exploration, as the oil patch was then only a oil spot. Only about 20 of the decade's 328 graduates went into university teaching, which demonstrates the high intelligence of our graduates. In 1971, Sue Roddick was the second female to earn a masters degree in Geology, and the first to get a M.Sc. Tom Pearce, Ph. D., '67, came back to Queen's to teach, and retires this year. Sandra McBride, M.Sc., '73, came back and is still teaching. Bill Karvinen, Hon. '68, Doug VanDine, Eng. '72, and Dennis Woods, Eng '73, came back briefly to teach, then saw the error of their ways. Will Bawden of the filthy Science jacket, Eng '70, came back to teach in Mining!!! Oh, the shame. Dave Fritz, also, Eng '70, came back and teaches in Mechanical!! More shame.

The Eighth Decade (Continued from page 3)

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1952
Bob Baragar, M.Sc., retired from the G.S.C. in 1991, and continued as an emeritus scientist compiling data on the Circum-Superior Belt of Eastern Hudson Bay.

1959
Donald MacDermott, B.Sc., Hon., L.L.D., Osgoode Hall, 1963, retired in Edmonton, wonders if geologists still hoof it when mapping. I suspect less than we did in the Middle Ages, Don.

1960
George Bennett, B.Sc., Eng., reported in after over 40 years. He worked for Harbison-Walker all over the world (except Antarctica), mainly concerned with the mining of refractories, and retired as Director, Mining and Minerals. He climbed Kilimanjaro at age 55, and walked the Inca Trail at 57 from Urabamba to Machu Picchu.

1961
Neil Macrae, B.Sc., Eng., M.Sc., Ph.D., McMaster, retired in 2001 after teaching for 35 years at Western. In 2000, he was selected for the province-wide OCUFA Teaching Award to add to his Faculty of Science teaching award. However, he continues to teach at Western.

1970
John Hayles, B.Sc., Eng., M.A.Sc., 1973, UBC, after a long spell as a geophysicist with Atomic Energy of Canada, now runs Hayles Geoscience Surveys Ltd. in Manitoba.

1971
Wayne Savigny, B.Sc., Eng., Ph.D., Civil, Calgary, 1980, gave a talk in the Queen's Civil Department in February, 2003, on "Geotechnical Applications in the Pipeline Industry". His honours include the Thomas Roy Award and the Roger J.E. Brown from the Canadian Geotechnical Society and a Teaching Excellence Award from UBC.

A 50th anniversary reunion of Queen's graduate students in Geology was held at the Opinicon Country Hotel at Chaffey's Locks on the Rideau River on the September 27-29 weekend. Although 1952 was the reference year the aim was to include all graduate students, masters and doctoral candidates, who were in the geology department during the years 1951-52. From an original total of 23 graduate students in the department during this period, 10 were able to attend the reunion. Not a bad return. With spouses, the attendees were Keith and Lorraine Abel, Bob and Dorothy Baragar, Al and Marion Goodwin, Gordon and Betty Gross, Dick and Norma Jones, Paul Le Comte, Don and Marion Richter, Heddy Rimsaite, Pierre Sauvé, and Bob and Shirley Traill. The most far-traveled were the Richters from Anchorage, Alaska; the rest were from Montreal, Ottawa, Toronto and Kingston. Six couples and individuals stayed at the Opinicon, the others commuted from cottages and homes but all met for dinners at the hotel Friday and Saturday nights.

The program was informal. Pre-dinner, dinner, and post-dinner gatherings generated an incredible level of discourse as people caught up with the news of one another and discovered how much they still have in common. Conversation was not a problem. During the evenings people who had brought slides gave brief talks that highlighted their lives over the past 50 years and thereby added some colour and reality to the intervening years that conversation alone might have fallen a bit short on.

On Saturday morning a number of the group took advantage of the Queen's Homecoming weekend to tour their old department. Herb Helmstaedt, the current Head of the Department guided the tour around Miller Hall and its new Bruce Wing. The physical plant of the old Miller Hall was sort of familiar, most were able to locate their old offices and laboratories, but the functions to which these are now dedicated has greatly changed: in the 1950's such things as mass spectrometers and argon-argon laboratories weren't even on the radar screen whereas today students would probably find blow-pipe laboratories a little quaint. A nostalgic memory for most of the group was a visit to the old Miller Research Room which for us had been the core of Miller Hall; the site of virtually all seminars, examinations, informal discussions, and coffee breaks. On one wall had been Dr. Hawley's rogues gallery@ picture gallery of old graduate students to which we were all invited to contribute when we finally left Queen's for the world outside. Now Miller Room serves as student offices. No one could tell us

(Continued on page 6)
what happened to the Aogues gallery.

After the tour, responding to an invitation from Dick and Norma Jones, we had a marvelous lunch in their very elegant home in Kingston west and another opportunity for reminiscent chat that extended lunch through most of the afternoon.

The Reunion ended on Sunday with a great baked-bean lunch by Betty and Gordon Gross at their cottage on Pike Lake about an hour drive from the Opinicon. It was a beautiful fall day, as only fall days can be in Ontario, and a beautiful setting. Lunch, once again, extended well into the afternoon and, but for the pressures of travel schedules, might have gone on indefinitely. Certainly the fountain of chatter had hardly run dry. The ties of youthful friendships and of common interests, it seems are remarkably durable.

Now that the ice has been broken again after all these years, perhaps we can hope that some of our re-established contacts will endure into the future.

Thanks to all for coming.

Fiftieth Anniversary Reunion of Queen’s Geology Grad Students
September 27-29, 2002.
L-R Front Row- Paul Lecompte, Gordon Gross, Bob Traill, Pierre Sauvé
L-R Back Row- Don Richter, Bob Baragar

Alumni Update - (continued from page 5)

1972
Doug VanDine, B.Sc., Eng., M.Sc., Civil, 1975, can’t retire because interesting jobs or interesting places to go keep arriving on his doorstep. Some people just don’t know when to quit.

1973
Jack Callahan, Ph.D., is retiring from a teaching career at Appalachian State U.

1974
John Gunton, Ph.D., left the Oil Patch in 2001 after 27 years, and has his own consulting firm on Vancouver Island. His son Matthew got his B.Sc., Life Sciences, Queen’s, in 2002.

1979
Chris Morton, B.Sc. Hon., M.Sc., Stanford, 1981, M.B.A. Pennsylvania, 1990, has been transferred to Thomson’s West Group, and can be reached at chris.morton@westgroup.com.

Eric Sacks, M.Sc., is a geologist on the NEBC Development Team, BP Canada Energy, Calgary.

1980
Gary Greer, B.Sc., Hon., B.Ed., 1988, Mt Allison, was working on an M.Ed. in Information Technology at Memorial University of Cape Breton at this time last year.

1982
Anna (Pedskalny) Green, B.Sc. Hon., is still in Calgary. A couple of car accidents have cramped her style. She didn’t say if she was still flying gliders.

1985

1987
Fred Ford, B.Sc. Hon., received the Senate Medal from Carleton University for his outstanding doctoral thesis on metamorphism in the Grenville Province. He now works for INCO.

1990
Dave Gibbon, B.Sc. Hon., after 11 years in Calgary, moved to Stavanger, Norway, in 2002 to work in a marketing role with Schlumberger. He’s married with two kids.

1994
Cathy Corrigan, B.Sc.Eng., M.Sc., 1997, left RMC to join the UMA Group in Calgary. She is still working on DEW Line cleanup, but now with a more on engineering focus.

(Continued on page 7)
Alumni Update - (continued from page 6)

1995

Jill (Belisle) Daughtery, B.Sc. Eng., reports that she added Eric to her family last fall. She works with the Environmental Sciences Group at RMC.

John Newgard, B.Sc. Eng., 1996, is finishing up his M.Sc. in Physical Oceanography at Dalhousie between episodes of surfing, yacht racing, and hockey. He reports that Jason Staples is in Ottawa with Edigenous Technology, and that Matt Pierce and Marc Ruest are in the mining consulting industry in Minneapolis.

1996

Treena Bron, B.Sc. Hon., after 5 years with Schlumberger as a drilling service engineer in Nigeria, Tunisia, Abu Dhabi, China, Holland, Texas, Brazil, France, Malaya and Venezuela, finally landed in Australia a year ago. At that time her e-mail was tbron@eudoramail.com

Guillermo Gastelum-Morales, M.Sc., lives in Chihuahua and carried out mineral exploration for Servicios Industriales Peñoles, S.A. de C.V.

Darlene Nelson, B.Sc.Eng., is with Placer Dome in Timmins working as a Senior Ground Control Officer. Married in 1998, she has a 2 year-old daughter, Emma Grace Elizabeth.

1998

Nadia Bélanger, B.Sc.Eng. and Art McCarthy, B.Sc.Eng. got married in Ottawa last June. They are both working for Calgary firms, but I gather Art does some foreign jobs. They have their own home, I think, in northwest Calgary.


Chris Elvidge, B.Sc.Eng., M.Sc., Civil, 2000, is with Terraprobe in Toronto. He gave a talk in the Queen’s Civil Department in February, 2003, on "The Importance of Establishing Contacts".

Gavin Grant, B.Sc.Eng., M.Sc., 1998, Civil, Queen’s, left his job in Boston and is now taking a Ph.D. in contaminant hydrogeology at Edinburgh under the direction of Prof. Jason Gerhard.


1999

Hua Liu, M.Sc., is locating copper deposits in the jungles of Sarawak for Mabong Mining.

The long gap between newsletters was in part due to a shortage of news to put in this section. To encourage more regular mailings, everyone should send news to GORMAN@GEOL.QUEENSU.CA

ACROSS
1. Water trapped in sediment
7. Bends without breaking
13. Repeat
14. Compass heading
16. Faded
17. Street woman’s boss
18. Dolomites home
19. Office note
20. Cain’s Mom
22. Scottish small
24. Help!
25. Concerning
26. Hard-to-weather mineral
29. Millerite metal
31. Bear’s winter home
32. Period of time
34. Twixt granite and gabbro
37. Can be cut with a knife
40. Wander
41. TO footballer
42. Pyrope and uvarovite
45. Intellectual meeting
48. Maiden name
49. Friend of Marc
50. A plagioclase
52. Characteristic
54. South America
55. Close off a well
57. Asian Republic
58. Everyone
59. The same as
61. Features of resort spas
62. Blast furnace waste
63. Wading bird
65. Prolonged English goodbye
66. Regional life forms
67. Submit again
68. Type of cone

DOWN
1. Jumped happily
2. Debris-laden dark ice band
3. Moniker
4. Gentle bite

(Continued on page 8)
GEONEWS

Crossword Clues (continued from page 7)

5. CaAl₂Si₂O₈  54. Twixt shale and Phyllite
6. Wrap around  56. Chirpy, cute
7. Erases       58. I like ____ kids & candy
8. Command Post 60. ____ causa
9. Gaelic beanie 62. Don’t stand
10. Tiny French Islands 64. Lung disease
11. Problem car  66. In witherite
12. Wears away
15. Not “Ayes”
21. Clastic and chemical
1. Mineral from Chilean desert
27. Group of joints
28. We _____ here!
30. Open waste land (Eng)
33. Travel info sources
35. A Gershwin
36. Raced
38. Prefix for 3
39. Mauna ___
42. Ice mass
43. Viet Nam offensive
45. Coastal salt flat (Arabia)
46. Aussie bird
47. Arsenic Sulphide
51. Symbol of status
53. Tiny Greek letter

Answers to the last Crossword

F O L D I N G    K Y A N I T E
A V A I L I T E    C A L Y X
B O N E    F R O T H    B O R T
R I D D L E    A P T    S T O R
I D F I S S I L I T Y    L U
C O U O W O    E R R L D
S E V E R A L    S A U S A G E
K I L N    C A P E
D E N I A L S    P A T R I O T
E    E    E    A G U S E
M A    C L O C K W O R K    B R
O R O Y    T A N E    H E R
N O R M    L I M E D    M E S A
I S A    A C    L E    Y E M E N
C E N S U R E    S Y E N I T E

HOMECOMING OCTOBER 3, 4, 5, 2003

DEPARTMENTAL OPEN HOUSE
Once again this year Geology will be hosting an Open House in the Reading Room in Bruce Wing beginning at 9 a.m., Saturday, October 4th. If any geotypes can stagger out of bed on Saturday morning, there are always a few profs around in what used to be the library, on the main floor of the Bruce Wing, so wander in for a visit if you have time.

REUNION NEWS
Cowboy Stewart is busy organizing the Geoengineers for the upcoming Science ‘73 reunion. A sit-down dinner is in the works for Saturday night after the football game in Ban Righ Hall, and a late breakfast is planned at the Faculty Club Sunday morning.

Janet Sidey and Jane Hughes are at it again! The 15th reunion they organized for the Class of ‘83 was such a success, they decided to do it again for the 20th. They have reserved Miller 100A for a get-together on Saturday evening, and plan to repeat the barbecue event. This, it appears, will be followed by a high tech slide show in Miller 105. No mention as yet of a baseball game over in the Park.

Class of ‘78 - Contact Rob Langridge at rob@lgl.kos.net about a 25th anniversary reunion.

If you plan on coming back next year and want to contact classmates to organize something, get in touch with the department. We can probably supply names and addresses for most of your classmates.

WE LIKE HEARING FROM YOU!
If you have feedback about our Newsletter, the Department, alumni news, or if you would just like to say hi, please contact us at:

dalrymple@geol.queensu.ca
OR
hyde@geol.queensu.ca.
WHAT’S BEEN HAPPENING!

1. FIELD SCHOOL MAY 2003
2. 4TH YEAR TRIP OCT 2002
4. NEW NEPTUNE - MULTICollector ICP-MS IN THE QUEEN’S ISOTOPE RESEARCH LAB. L.R. DR. KURT KYSER, PETER STOWE, DON CHIPLEY.
5. DON CHIPLEY WITH NEW ICP-MS IN THE QUEEN’S ISOTOPE RE
6. **Kerry Klassen** extracts oxygen from samples with a silicate extraction line in the Queen’s Isotope Research Lab.

7. **Beth McLanaghan** (centre) at the Diamond Course held in the department, May 2003.

8. **Harvey Thorleifson (left)** at the Diamond Course, May